

5K-1P-N Spec Sheet



Solar String Input Data		
Max Allowed PV Power	10,400W	
PV Input Voltage	370V (100~500V)	
PV Input Current	20A + 20A	
Starting Voltage / Min Voltage	150V	
Number of MPPT / Range (V)	2 125-425V	
Solar Strings Per MPPT	2 + 2	
MPPT Efficiency	99.90%	

AC Output Data		
Grid Type (Single Phase only)	120V 1P	
Rated AC Output	4,800W	
Peak Power (Off-Grid)	10,000W 10S	
Rated AC Output Current (A)	40 A	
Parallel Stacking	Yes - Up to 8	
Frequency	60/50Hz	
Max continuous AC passthrough (A)	50A	
Max Efficiency	97.6%	
Idle Consumption Typical—No Load	60W	
Sell Back Power Modes	Limited to Household/Fully Grid-Tied	
Design (DC to AC)	Transformerless DC	
Response Time (Grid-Tied to Off-Grid)	5ms	
Power Factor	+/- 0.8 - 1.0	

Battery Input Data (Optional)		
Туре	Lead-Acid or Li-Ion	
Nominal DC Input	48V	
Capacity	50 — 9900Ah	
Voltage Range	40V-60V	
Continuous Battery Charging Output	120A	
Charging Curve	3-Stage w/ Equalization	
Grid to Batt Charging Efficiency	96.0%	
External Temperature Sensor	Included	
Current Shunt for Accurate % SOC	Integrated	
External Gen Start Based on Voltage or %SOC	Integrated	
Communication to Lithium Battery	CanBus & RS485	

General	
Dimensions (H x W x D)	22.8 x 13 x 9.1 in
Weight	51lbs (62lbs package)
Enclosure	IP65 / NEMA 3R
Ambient Temperature	-25~60°C, >45°C De- rating
	rating
Noise	<30 dB
Installation Style	Wall-Mounted
Wi-Fi & LAN Communication	Included
Standard Warranty	10 Years

Protections & Certifications	
PV Input Lightning Protection	Yes
Grid Sell Back — UL1741-2010/2018, IEE- E1547a-2003/2014, FCC 15 Class B	Yes
Anti-Islanding Protection	Integrated
PV String Input Reverse Polarity Detection	Integrated
PV Arc Fault Detection — NEC 690.11	Integrated
Insulation Resistor Detection	Integrated
Residual Current Monitoring Unit	Integrated
Output Over Current Protection	Integrated
Output shorted Protection	Integrated
Surge Protection	DC Type II / AC Type II